

Claims

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. A joint structure for a liquid or semi-liquid mastic sealant comprising:
a first structural member having a channel, the channel having a first wall, a second wall generally opposite the first wall and a third wall connecting the first and second walls, the third wall being disposed at an acute angle to the first wall and at an obtuse angle to the second wall;
a second structural member having a tongue portion for matably engaging the channel of the first structural member, the tongue portion having a first wall, a second wall generally opposite the first wall, and a third wall connecting the first and second walls, the third wall being disposed at an obtuse angle to the first wall and at an acute angle to the second wall, the angle of the third wall of the channel being opposite that of the third wall of the tongue portion.
2. A joint structure for a liquid or semi-liquid sealant as described in claim 1 wherein the distance between the first wall of the channel and the first wall of the tongue portion is at least twice the distance between the second wall of the channel and the second wall of the tongue portion.
3. A joint structure for a liquid or semi-liquid sealant as described in claim 1 wherein the angle of the first wall of the tongue portion is parallel with and equal to the angle of the first wall of the channel.
4. A joint structure for a liquid or semi-liquid sealant as described in claim 1 wherein the angle of the first wall of the tongue portion is greater than the angle of the first wall of the channel.

5. A joint structure for a liquid or semi-liquid sealant as described in claim 1 wherein the angle of the third wall of the channel is greater than the angle of the third wall of the tongue portion by at least 2° .

6. A joint structure for a liquid or semi-liquid mastic sealant comprising:
a first structural member having a channel, the channel having a first wall, a second wall generally opposite the first wall and a third wall connecting the first and second walls, the third wall being disposed at an acute angle to the first wall and at an obtuse angle to the second wall;
a second structural member having a tongue portion for matably engaging the channel of the first structural member, the tongue portion having a first wall, a second wall generally opposite the first wall, and a third wall connecting the first and second walls, the third wall being disposed at an obtuse angle to the first wall and at an acute angle to the second wall, the angle of the third wall of the channel being opposite that of the third wall of the tongue portion such that a cross-sectional area between the tongue portion and the channel is larger on one side than on the other when the tongue portion is matably received in the channel so that a bead of sealing material can be applied between the channel and the tongue portion and excess sealing material is directed toward the larger side of the cross-sectional area.

7. A joint structure for a liquid or semi-liquid sealant as described in claim 6 wherein the distance between the first wall of the channel and the first wall of the tongue portion is at least twice the distance between the second wall of the channel and the second wall of the tongue portion.

8. A joint structure for a liquid or semi-liquid sealant as described in claim 7 wherein the angle of the third wall of the channel is greater than the angle of the third wall of the tongue portion by at least 2° .

9. A joint structure for a liquid or semi-liquid sealant as described in claim 8 wherein the angle of the first wall of the tongue portion is parallel with and equal to the angle of the first wall of the channel.

10. A joint structure for a liquid or semi-liquid sealant as described in claim 8 wherein the angle of the first wall of the tongue portion is greater than the angle of the first wall of the channel.